

36634 to 36638.

Collected by Messrs. P. H. Dorsett, A. D. Shamel, and Wilson Popenoe, of the Bureau of Plant Industry. Received December 27, 1913.

Quoted notes by Messrs. Dorsett, Shamel, and Popenoe, unless otherwise stated.

36634 to 36337. CITRUS spp.**36634. CITRUS NOBILIS DELICIOSA (Tenore) Swingle. Tangerine.**

"(No. 27. Bahia, Brazil, November 28, 1913.) Tangerine. Twelve bud sticks of the *laranja cravo*, or tangerine, from select tree No. 5, in Dr. Fortunato da Silva's grove, Cabulla. For trial in California and Florida."

Bud sticks.

36635. CITRUS SINENSIS (L.) Osbeck. Orange.

"(No. 35. Bahia, Brazil, December 4, 1913.) Navel-orange bud sticks from plat 1, tree 8-6, grove of Col. Frederico da Costa, Matatu. One of the older trees, about 15 years of age; height 18 feet; spread 20 feet; circumference of trunk $23\frac{1}{2}$ inches; headed 11 inches from the ground; 4 main branches; dense foliage; dark-green color. There were no variations in the type of fruit observed. Navel very small. Very little mottle-leaf and very little gummosis. Very few and very small dead branches. This tree is one of the best types of navel oranges in the section of the grove in which plat 1 is located. There were 171 June-crop fruits and 8 December crop, making a total of 179. Should be tried in California for an improved type of navel orange."

36636. CITRUS AURANTIUM L. Bitter orange.

"(No. 23. Rio de Janeiro, Brazil, November 3, 1913.) Bud wood of the *laranja da terra*, from Shr. A. G. Fontes' ranch, Banca Velha, near Rio de Janeiro. This variety is most highly esteemed as a stock. The trees grow to large size, are very thorny, and show great vigor of growth. The leaves are distinguished by large winged petioles, an inch across. The fruits at this time are small, about one-half inch in diameter. The farm superintendent at Fontes' ranch says: 'This variety is a very fine stock for *Selecta*, *Pera*, tangerine, and other commercial varieties.' Trees of this variety should be tried in California for seed production for stocks. It should be given a very careful trial in all citrus districts in the United States for stock purposes."

36637. CITRUS SINENSIS (L.) Osbeck. Orange.

"(No. 37. Bahia, Brazil, December 4, 1913.) Navel orange from plat 2, tree 5-1, Col. Frederico da Costa's grove, Matatu. Height of tree 13 feet; spread 16 feet; height of head $11\frac{1}{2}$ inches; number of main branches 3. Foliage dense and dark green. There were 85 June-crop fruits and 250 of the December crop, making a total of 335 fruits, evenly distributed through the tree. Navel very small and mostly rudimentary. Very little mottle-leaf or gum disease. Very little dead wood; small branches only. Tree about 8 years old and in very healthy and vigorous condition. Should be tried in California for an improved type of navel orange."

Bud sticks.

36638. ROSA LAEVIGATA Michx. Rose.

"(No. 25. Rio de Janeiro, Brazil, November 4, 1913.) A climbing shrub, reaching to the tops of large trees in a wild state; its stems armed with hooked spines. Leaves three-foliate, brilliantly glossy green, and quite smooth; leaflets shortly stalked, oval or ovate, simply toothed, $1\frac{1}{2}$ to 4 inches long, half as wide, of thick, firm texture. Flowers 3 to 6 inches